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Agenda item 1
Adoption of the agenda and other organizational matters

Elections to the Committee on Energy and Natural Resources for Development

Note by the Secretary-General

The Secretary-General has received the following nominations for election to the Committee on Natural Resources:

From the Government of Iceland: Jon Ingimarsson

From the Government of Romania: Neculai Pavlovschi

The candidates' terms of office would begin on 1 January 1999. Biographical information on the candidates is set out in the annex below.

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Annex

Biographical information on Jon Ingimarsson (Iceland)

Born: 21 September 1951 in Reykjavik, Iceland

Family: Married to Kristin H. Traustadottir, M.Sc. in Medical Science
Three children, born 1975, 1977 and 1986

University and graduate studies:

1978 M.Sc. Civil Engineering, Technical University of Denmark

1975 B.Sc. Civil Engineering, University of Iceland

Present position:

1991– Director for Energy Affairs, Ministry of Industry and Commerce, Iceland. (Areas of responsibility include general energy policy, energy legislation, energy research and development, rational use of energy, energy intensive industries, environmental impact, granting of licences for electricity generation, use of geothermal fields and mining of minerals).

Previous positions:

1987–1991 Director for the Energy Analysis Division at National Energy Authority of Iceland (NEA). (The Division is involved in energy forecasting, energy planning, energy system analysis and compilation of data.)

1986–1987 Consultant in hydrology at Vatnaskil Ltd.

1982–1986 Head of the Engineering and Hydrological Section of the Hydro Power Division of NEA.

1975–1982 Various positions at the NEA, mainly as a consultant in groundwater hydrology, water supply, reservoir management and rational use of energy.

Special assignments:

1997– Elected member of the Committee on New and Renewable Sources of Energy and Energy for Development.

1997– Member of the Nordic Committee of Senior Officials for Energy Policy.

1996 Member of the Icelandic Committee of the World Energy Council.

1995–1998 Chairman of the Board of the HAB Geothermal District Heating Company.

1994– Member of the Thermie Committee of the Non-Nuclear Energy Demonstration Programme of the European Commission.

1993– Member of the Joule Committee of the Non-Nuclear Energy R&D Programme of the European Commission.

1992– Re climate negotiations — member of the Icelandic delegation to:

Intergovernmental Negotiating Committee for a Framework Convention on Climate Change

Ad hoc group on the Berlin Mandate (on negotiations for the Kyoto Protocol)

	First Conference of the Parties to the Framework Convention on Climate Change: COP-1 (Berlin), COP-2 (Geneva), COP-3 (Kyoto), COP-4 (Buenos Aires).
1991–	Member of the Board of Icerock Ltd. (a rockwool plant). Chairman from 1996.
1991–	Member of the Board of the Icelandic Energy Marketing Agency, now Invest in Iceland. Chairman from 1997.
1990–	Member of the European Free Trade Association (EFTA): Working Group on Energy Matters.
1988–1989	Chairman of the Board of the Association of Chartered Engineers in Iceland.
1987–1988	Vice-Chairman of the Board of the Association of Chartered Engineers in Iceland.
1984–1988	Member of the Board of the Nordic Association for Hydrology.
1981–	Member of different groups of the Nordic Council of Ministers such as: Rational Use of Energy, Alternative Fuels for Transport, Energy Models, Energy and Climate Change, Energy and Environment and Energy Research.

Biographical information on Neculai Pavlovschi (Romania)

Licentiate in petroleum engineering and economics, Petroleum Institute and Polytechnic University, Bucharest, in 1963 and 1970, respectively.

Postgraduate studies in industrial management at the Managerial Training Institute, Bucharest, in 1975.

Ph.D. candidate at the Technical University in Ploiesti.

Managerial activity carried out within the Romanian gas industry as well as research and designing institutes.

Author of technical works and patents. Presentation of works at international congresses and conferences within energy and environment domains (London, Prague and Vienna, 1994).

Vice-President of the Working Group on Gas of the Economic Commission for Europe.

Member of the Committee on Natural Resources, 1993–1998.

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Elections to the Committee on Energy and Natural Resources for Development

Note by the Secretary-General

Addendum

1. The Secretary-General has received the following additional nominations for election to the Committee on Energy and Natural Resources for Development:

From the Government of Costa Rica: Hernán **Bravo Trejos**
From the Government of El Salvador: Carlos Alberto **Aguilar Molina**
From the Government of Finland: Markku Juhani **Mäkelä**
From the Government of France: Bernard **Devin**
From the Government of the Netherlands: Wilhelmus C. **Turkenburg**
From the Government of Paraguay: Carlos Augusto **Saldivar**
From the Government of Sweden: Malin **Falkenmark**
From the Government of Ukraine: Dmytro Victorovych **Derogan**

2. The candidates' terms of office would begin on 1 January 1999. Biographical information on the candidates is set out in the annex below.

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Annex

Biographical information on nominees to the Committee on Energy and Natural Resources for Development

Hernán Bravo Trejos (Costa Rica)

Education

University of Costa Rica, Industrial Chemist, 1971

Profession

Businessman and politician

Primary position

Chief Executive Officer, Empaques Asépticos S.A.

Political career

General-Secretary, Democratic Renovation Party, 1979–1981; National Coordinator, United Social Christian Coalition, 1978–1981; Secretary for Municipal Affairs, United Social Christian Party (USCP), 1984–1990; member, National Directorate, USCP, 1984–1990; Minister for National Resources, Energy and Mines, 1990–1993. Congressman, Legislative Assembly, 1994–1998

Professional career

Quality Assurance Manager, Polymer of Costa Rica, 1970–1974; Plant Manager and Technical Director for the Central America Region Coca Cola Company, 1974–1988; General Manager, Empaques Asépticos S.A., 1988–1990; Board Director, Refinería Costarricense de Petróleo, 1990–1994; Board Director, Instituto Costarricense de Electricidad y Telecommunicaciones, 1998 to date; President and Chief Executive Officer, Empaques Asépticos S.A., 1993 to date.

Political interests

Environment and energy

Business/professional memberships

Member, Colegio de Químicos de Costa Rica; member, Rotary Club.

Trusteeships

Fundación Pro Zoológicos de Costa Rica; Comité de Vigilancia de los Recursos Naturales

Committees

Earth Council Institute

Carlos Alberto Aguilar Molina (El Salvador)

Education University of El Salvador
Faculty of Agricultural Sciences, 1968–1975

Degree awarded: Agricultural engineer
Plant technical expert

Additional course work

National level

Eighteen seminars and workshops on natural resources, project evaluation and legislation on water resources.

Eleven courses on natural resources, the environment, water and soil quality, flooding and catchment basins.

International level

Nine seminars, workshops and meetings on catchment basins, water resources, the Basel Convention and the Montreal Protocol.

Ten courses on natural resources, the environment, water and soil conservation, flooding and catchment basins.

Work experience

Since August 1992: Expert on water resources and catchment basins in the Ministry of the Environment and Natural Resources.

July 1992–July 1995: Planning engineer, Comisión Ejecutiva del Río Lempa (Río Lempa Executive Committee).

September 1974–June 1992: Expert on catchment basins, Chief of Unit, Chief of Division, Office of the Director of Renewable Natural Resources.

Teaching experience

Gave lectures on soil conservation, project design and evaluation and watershed management at the Universidad Evangélica de El Salvador (Evangelical University of El Salvador), Universidad Politécnica de El Salvador (Polytechnic University of El Salvador, and the Instituto Tecnológico Centroamericano (Central American Institute of Technology).

Markku Juhani Mäkelä (Finland)

Education

Philosophy candidates, University of Helsinki, 8 May 1969; major subjects geology and mineralogy

Cum laude approbatur in geophysics, University of Helsinki, 25 May 1970

Licentiate of Philosophy (excellent), University of Helsinki, 26 October 1972

Doctor of Philosophy (magna cum laude approbatur), University of Helsinki, 7 May 1974

Declared competent to hold professorship of economic geology at Helsinki University of Technology, 15 September 1981

Professional experience

Research Director, Operative Issues, Geological Survey of Finland, 1 July 1994–present

Technical Manager, United Nations Revolving Fund for Natural Resources Exploration, 1991–1994

Operations Supervisor, United Nations Revolving Fund for Natural Resources Exploration, 1988–1991

Manager, Regional Office of Western Finland, Outokumpu Oy, Exploration Department, 1982–1988

Also served as an expert with Outokumpu Oy's Foreign Mining Projects section, travelling to Australia in 1985 and to the Philippines, Indonesia, Australia and the Solomon Islands in 1986 to assess mineral prospects and mine projects

Head, Outokumpu Project, Outokumpu Oy, Exploration Department, 1979–1982

On 1 October 1979, the Exploration Department of Outokumpu Oy launched a major exploration project in North Karelia in the area covered by the Outokumpu Association. As head of the project was responsible for its success with an annual budget of approximately Fmk 6 million. The project discovered the Kylylahti Cu, Co, Zn prospect

Technical Superintendent, Helsinki University of Technology, 1973–1979

Headed the Lapland sulphur isotope research project under the Ministry of Trade and Industry from March 1974 to December 1976 and the North Finland sulphur isotope project, also under the Ministry of Trade and Industry, from January to December 1977

Appointed by the Ministry of Trade and Industry, served as secretary of the State Ore Committee from November 1977 to May 1978

Scientific activities

Lecturer in Economic Geology, Helsinki University of Technology, June 1977–May 1982

Secretary of the organizing committee of the "Metallogeny of the Baltic Shield" symposium set up under the auspices of the Academy of Finland, October 1976–June 1978

Member of the working group on a textbook on ore geology set up by the Finnish Geological society, February–December 1977

Member of the geological committee of the Finnish Association of Mining and Metallurgical Engineers, April 1978–March 1980

Secretary General of the "Metallogeny of the Baltic Shield: Helsinki Symposium 1978", 12–21 June 1978

Expert at the Helsinki University of Technology, January–December 1978

Fixed-term researcher at the Helsinki University of Technology, January–December 1979

Invited lecturer at the Department of Geology and Mineralogy of the University of Turku, autumn term 1980

Bernard Devin (France)

Principal qualifications

Bernard Devin has quite exceptional experience in the development of solar energy and its applications, going back to the FAO Conference in Rome in 1961.

His experience with the developing countries began in the Office of the Atomic Energy Commission in 1975 with the Franco-Egyptian (scientific and technical) solar programme, which included a joint venture in domestic solar water heaters.

In 1980 he was put in charge of the international affairs department of the institution which later became the Agency for Environment and Energy Use (Agence de l'Environnement et de la Maîtrise de l'Énergie (ADEME)). In that capacity he helped to launch energy efficiency agencies in cooperation with Tunisia, Ecuador, Spain and Portugal.

Since 1986 he has been an independent expert specializing in questions of sustainable development, with bilateral French assistance and assistance from UNDP and the World Bank. A major achievement was organizing the 1995 seminar in Marrakesh on the change of scale in decentralized rural electrification with financial assistance from France, the European Union, UNDP and the Institut de l'Énergie des Pays ayant en commun l'usage du français (IEPF). The Marrakesh Recommendations were submitted to the Commission on Sustainable Development in 1996 and adopted.

He was a member of the first United Nations committee of experts (UNCRSEED) in 1994, which proposed that a special session on energy be held in the year 2001.

He is now deeply involved in the question of energy strategies for sustainable development, and is presently heading a meting of consultation among the EU member countries, jointly with DG VIII, with a view to proposing appropriate assistance mechanisms for launching such strategies in the African, Caribbean and Pacific Group of States (ACP) in the period 2000–2025.

Education

Graduate in electrical engineering and electronics (1954) of the École Supérieure d'Électricité (ESE Radio).

Recent publications

"The financing of viable development" ("Le financement du développement viable") (Liaison Energie Francophone No. 36, 3rd quarter 1997)

"Strengthening capabilities in energy cooperation — which capabilities and how" ("Renforcement de compétences dans la coopération énergétiques — Quelles compétences et comment") (Liaison Energie Francophone No. 37, 1998)

APPLIMAR Methodology — implementation of the Marrakesh Recommendations ("APPLIMAR Methodology — Une mise en oeuvre des recommendations de Marrakech") (with M. Labrousse, to appear in Liaison Energie Francophone, 4th quarter, 1998)

Examples of professional activity

Initiative for and organization of the Marrakesh seminar (1995) on changing scale and pace in decentralized rural electrification programmes.

Carried out under the auspices of France (ADEME, Foreign Affairs), the European Union (DG XVII and DG VIII), UNDP and the IEPF, and with the participation of Spain, Germany and the World Bank (IENPD).

A meeting of more than 20 teams operating in the field on decentralized rural electrification (ERD) to examine ways and means of overcoming the barriers to the development of rural electrification on a large scale in areas where it is not economic to extend a network. Elaboration of a set of 19 Marrakesh Recommendations, which were endorsed by the Commission on Sustainable Development in 1996.

APPLIMAR — a DG XVII Study (in collaboration with ADEME/EXPLICIT)

Preparation of rules for implementing the Marrakesh Recommendations and of information documents for teaching purposes and Interview Guides for interviewing the various "participants" in the planned rural electrification programmes. Development of a semi-quantitative procedure for rating projects for the benefit of decision makers and financial backers.

Application of the procedure to four countries selected for the size of their non-electrified rural populations (Ecuador, Paraguay, Benin, Viet Nam).

Franco-Moroccan cooperation with ADEME, 1982 to 1995

The main achievement was the Rural Electrification Pilot Programme (PPER), a joint undertaking by the Moroccan Ministry of the Interior and Ministry of Energy and Mines, with Moroccan funds and French bilateral assistance. The objective of the programme was to use renewable energies to meet basic energy needs (lighting, communications) in the Atlas mountains region and in a coastal region, with billing of users being funded by public investment in the pre-financing phase.

United Nations Expert Group on New and Renewable Sources of Energy and Energy for Development (UNCRSEED)

Elected a member of the group in 1994.

Made a proposal in 1996 for special activities in the year 2001, anniversary of the Nairobi Conference on New and Renewable Sources of Energy, in the context not of the oil crisis this time but of the new international commitments arising from the United Nations Framework Convention on Climate Change and the resolutions adopted at the sessions of the Conference of the Parties (Kyoto, 1997 and Buenos Aires, 1998).

Wilhelmus C. Turkenburg (Netherlands)

Education

1971:	Master of Physics and Mathematics, University of Amsterdam, Netherlands
1976:	Doctor of Natural Sciences and Mathematics, University of Amsterdam (thesis: "Surface Layer Analysis by Medium Energy Ion Scattering")

Work experience

1980–1985:	Senior scientist and Assistant Professor, at Utrecht University
1988–present:	Professor of Science, Technology and Society at Utrecht University
1992–1993:	Professor of Environmental Science (part-time) at the Free University of Brussels, Belgium
1997–present:	Member of the Netherlands Council for Housing, Physical Planning and Environment, appointed by the Queen of the Netherlands

Awards

1996:	Greenman Award at the Third Conference on Carbon Dioxide Removal (Massachusetts Institute of Technology). This award is given "to honour important contributions toward harnessing technology so that the human race can better live in harmony with the environment".

Membership

1974–present:	Member and Chairman of the Dutch Energy Policy Research Group
1988–present:	Member of the Environmental Impact Statement Committee of the Netherlands
1989–1991:	Chairman of the 1989 and the 1991 Netherlands Solar Energy Conference
1989–1993:	Member of the Working Group on Renewable Energy Sources of the World Energy Council, and Chairman of the Subcommittee on Wind Energy of the World Energy Council
1990–1992:	Chairman of the Programme Committee of the First International Conference on Carbon Dioxide Removal (ICCDR-I), Amsterdam, March 1992
1992–1994:	Consultant of the World Bank for solar photovoltaics (Global Environment Facility)
1992–1993:	Member of the Scientific Committee of the Second International Conference on Carbon Dioxide Utilization (ICCDU-II), Bari, Italy, September 1993
1993–present:	Member/Vice-Chairman/Rapporteur of the United Nations Committee on New and Renewable Sources of Energy and on Energy for Development
1993–1994:	Member of the Programme Committee of the Second International Conference on Carbon Dioxide Removal (ICCDR-II), Kyoto, Japan, October 1994
1993–1994:	Member of the Programme Committee of the International Conference on Climate Change Research, Maastricht, Netherlands, December 1994

1993–1995:	Member/Lead author of the Working Group on Energy Supply Mitigation Options of the Intergovernmental Panel on Climate Change (IPPC)
1994–1995:	Member of the Programme Committee of the Third International Conference on Carbon Dioxide Utilization (ICCDU-III), University of Oklahoma, United States of America, April/May 1995
1997–present:	Member of the Council for Housing, Physical Planning and Environment of the Netherlands
1997:	Rapporteur of the United Nations Expert Workshop entitled "Fostering the Linkage between Energy and Sustainable Development within the International Institutions", Vienna, January 1997
1997–present:	Member of the Programme Committee of the Fourth International Conference on Greenhouse Gas Control Technologies (GHGT-4), Interlaken, Switzerland, August/September 1998
1998:	Scientific Director of the Utrecht Energy Research Centre

Carlos Augusto Saldivar (Paraguay)

Education

University studies

Faculty of Law and Social Sciences of the National University of Asunción.

Post-university studies

Tax law; international public law; international organizations; Paraguay National War College.

Profession

Lawyer, practising since 1953, interrupted by periods of public service.

Prior parliamentary activities

Member of the House of Representatives; National Senator; Chairman of the Foreign Relations and International Affairs Committee; Chairman of the Committee on Constitutional Affairs and National Defence; member of the Committee on Legislation and Codification and of the Committee on Petitions, Powers and Rules.

Prior international parliamentary activities

Member of the Inter-Parliamentary Council of the Inter-Parliamentary Union; representative to the Latin American parliament; member of various committees of the Latin American Parliament; Vice-President elect of the Latin American Parliament.

Current parliamentary activity

Member of the Advisory Council of the Ministry of Foreign Affairs (1993–1998).

Consultant on international relations

Member of the Advisory Council of the Ministry of Foreign Affairs (1993–1998).

Representation of Itaipú Binational

Representative of the Ministry of Foreign Affairs at Binational Itaipú (since September 1993; previously 1973–1983).

Prior public offices held

Minister for Foreign Affairs; State Counsellor; Assistant Secretary for Foreign Affairs; Director of various departments within the Ministry of Foreign Affairs; Secretary, Paraguayan Embassy, Washington, D.C.

Prior advisory positions

Member of the National Advisory Council on Boundaries; Legal Adviser to the Ministry of Foreign Affairs; Legal Advisor to the National Boundary Demarcation Committee; Legal Advisor to the Internal Revenue Service of the Ministry of Finance and Legal Advisor to the Department of Civil Aeronautics.

Participation in international congresses and conferences

Member and Chairman of Paraguayan delegations to: the United Nations; the Organization of American States; the Latin American Integration Association; and the Latin American Economic System.

International negotiations

Representative of the Government of Paraguay in the negotiations with Brazil and Argentina, respectively, for the joint development of shared water resources in the Paraná river (Itaipú and Yacyretá treaties, 1973); in the tripartite negotiations concerning the Paraná river (Argentina, Brazil and Paraguay, 1979); and for the signing of the treaty on freedom of navigation with the Argentine Republic (1967).

Studies in international law

Member of the National Commission on the Codification of International law.

Teaching experience

Faculty of Law and Social Sciences of the National University of Asunción; National War College of Paraguay; Diplomatic and Consular Academy of the Ministry of Foreign Affairs of Paraguay.

International arbitration

Member of the Paraguayan National Group of the Permanent Court of Arbitration, The Hague; member of the arbitration tribunal for the settlement of disputes within the Southern Cone Common Market (MERCOSUR).

Professional associations

Member of the Colegio de Abogados del Paraguay; member of the Instituto Paraguayo de Derecho Internacional; member of the Asociación Paraguaya de Derecho Tributario; member of the Instituto Hispano-Luso-Americano de Derecho Internacional; member of the Inter-american Bar Association; member of the International Association for Water Law.

Malin Falkenmark (Sweden)

Professor Malin Falkenmark received her education at Uppsala University, Sweden. In her PH. Lic. she specialized in hydrology with a thesis in 1963. In 1975 she was awarded Ph.D. Honoris Causa at Linköping University.

For many years Prof. Falkenmark worked as a hydrologist at the Swedish Meteorological and Hydrological Institute in Stockholm. Since 1965 she has served as Scientific Secretary and later also Executive Member of the Committee for Hydrology at the Natural Science Research Council, Stockholm, where, in 1986, she received a personal chair as Professor of Applied and International Hydrology. Prof. Falkenmark has served as an expert in several international and Swedish governmental committees. Since 1993 she has been a member of the United Nations Committee on Natural Resources.

She is the Senior Scientist at the Stockholm International Water Institute and Chair of the Scientific Programme Committee for the Stockholm Water Symposium, an annual meeting on global water issues convened each August to develop practical solutions and strategies that will help to alleviate the world water crisis.

Prof. Falkenmark is an outstanding environmental scientist and synthesizer. She is one of a small group of analysts of large-scale global and regional water problems whose work with broad perspectives has been instrumental in raising the profile of water issues internationally. She takes a geographical approach, involving both natural and social science in her broad-scale analyses.

Her work has resulted in an increased interest in applying a holistic view with respect to the complex hydrological processes, in which the socio-economic and the environmental aspects are added to the hydrological processes.

Much of Prof. Falkenmark's work deals with the problem of water scarcity in developing countries. She showed early on that the number of individuals that the society can successfully support depends on many factors, among which are climate, patterns of water use, technology used and water management capability. She has also claimed that population growth drives countries with low per capital water availability towards a water barrier, which will make it increasingly difficult to satisfy further demands for water.

Prof. Falkenmark's achievements in comparative hydrology are outstanding. She was the first scientist to demonstrate what incorrect and unusable conclusions may arise from applying results obtained from the temperate zone analyses to other climatic zones. Hydrological predictions are often not transferable from one region to another. This is an extremely important discovery that will seriously question the benefits of many scientific and technical assistance projects to developing countries.

Prof. Falkenmark challenged the Brundtland Commission in 1987 since it grossly overlooked global water issues. She has demonstrated that water should have the same priority as or a higher priority than global warming, ozone depletion, biodiversity and forestry.

In an 18 August acceptance speech in Helsinki, Finland, when she received the 1998 International Hydrology Prize, Professor Falkenmark said: "My ambition has been to get scientists in other fields like ecology and social sciences to understand fundamental hydrological phenomena and processes; in other words, to realize that one can never cheat the water cycle."

She also issued a call to action for hydrologists: "Due to the central role of the water cycle for life on this planet, hydrologists are crucial for attacking both the pollution-related problems that are already with us, and the life support problems that we can foresee when we are to feed a world population expanding with some 80 million people every year well into the next century."

Dmytro Victorovych Derogan (Ukraine)

Education

1965: Kiev Civil Engineering Institute, specializing in gas heating supply and ventilation

Professional experience

Chief, Department of Energy Conservation Strategies, Science and Non-traditional Energy Resources, State Committee of Ukraine for Energy Conservation

1993–1995: Deputy Chief of the Department, State Committee of Ukraine for the Oil and Gas Industry

1991–1993: Chief, Technical Laboratory, Research Institute of Special Construction

December 1967–March 1991: Senior Engineer, Researcher and Chief of Laboratory, Kiev State Institute of Experimental Design

February–December 1967: Senior Engineer, State Institute of Town-Planning

Academic activities

Ph.D. specializing in gas heating supply, air ventilation, acoustics and lighting techniques

Senior Research Officer and Prize Laureate of the Council of Ministers

Author of 48 publications

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Appointment of members of the Committee for Development Policy

Note by the Secretary-General

Addendum

In accordance with Economic and Social Council resolutions 1079 (XXIX), 1625 (LI), 1995/215, 1998/46 and 1998/47, the Secretary-General has the honour to nominate the 24 experts whose names and titles are listed below for appointment, in their personal capacity, as members of the Committee for Development Policy for a term beginning on 1 January 1999 and expiring on 31 December 2001. In making these nominations, the Secretary-General has taken into account the need to have diversity of development experience from ecologists, economists and social scientists, as well as geographical balance, gender balance and a balance between continuity and change in the membership of the Committee. In the list below, the names of persons who are being nominated for reappointment as members of the Committee are identified by an asterisk (*). Biographical information on the persons nominated is set out in the annex below.

Nominees

* Agusztinovics, Mária (Hungary): Professor of Economics, University of Budapest.

Alsogary, Maria Julia (Argentina): Secretary of the Secretariat for Natural Resources and Human Environment.

* Diouf, Makhtar (Senegal): Dean of Economics, University of St. Louis, Dakar; Chairman, Centre for Applied Economics.

* El-Hinnawi, Essam (Egypt): Professor, National Research Centre, Cairo.

* Faaland, Just (Norway): Member, Christian Michelsen Institute.

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Figueroa, Eugenio B. (Chile): Director, Centre of Environmental and Natural Resources Economics; Professor, Department of Economics, University of Chile.

Fishlow, Albert (United States of America): Paul A. Volcker Senior Fellow for International Economics, Council on Foreign Relations, United States.

* Gao, Shangquan (China): Member, National Committee of the Chinese People's Political Consultative Conference, and member, Overall Research and Coordinating Panel on National Economic and Social Development of the State Council.

Grigoriev, Leonid M. (Russian Federation): Director-General, Bureau of Economic Analysis, Russian Federation.

* Guillaumont, Patrick (France): Director, Centre for Study and Research for International Development, and Professor of Economics, University of Clermont-Ferrand.

* Hirono, Ryokichi (Japan): Professor of Economics, Seikei University, Tokyo.

* Kanaan, Taher (Jordan): Expert in economics and business.

* Katseli, Louka T. (Greece): Professor of Economics, University of Athens.

* Lipumba, Nguyuru H. I. (United Republic of Tanzania): Professor of Economics, University of Dar es Salaam.

* Monsod, Solita C. (Philippines): Professor of Economics, University of the Philippines.

Nayak, P. Jayendra (India): Executive Trustee, Unit Trust of India.

Pangestu, Mari Elka (Indonesia): Executive Director, Centre for Strategic and International Studies, Jakarta, and Professor of Economics, University of Indonesia.

Panić, Milivoje (United Kingdom of Great Britain and Northern Ireland): Fellow of Selwyn College, University of Cambridge, and Visiting Professor of International Economics, University of Milan.

Park, Eul Yong (Republic of Korea): Vice-President and Professor of Economics and Management, Handong University.

* Persaud, Bishnodat (Guyana): Professor of Caribbean Sustainable Development, University of the West Indies; Director, Centre for Environment and Development.

* Sawyerr, Akilagpa (Ghana): Director of Research, Association of African Universities.

Simonis, Udo Ernst (Germany): Head, International Institute for Environment and Society, Berlin Science Centre.

Tansini, Ruben (Uruguay): Professor of Economics, University of Uruguay.

* Urrutia, Miguel (Colombia): Chairman, Board of Directors, Central Bank of Colombia.

Annex

Biographical information on the nominees to the Committee for Development Policy

Mária Agusztinovics (Hungary). Professor of Economics, University of Budapest; Senior Research Adviser to the Institute of Economics of the Academy of Sciences, Hungary; Vice-Chairman of the Committee of Operations Research, Academy of Sciences, Hungary; in 1992 elected by the Parliament of Hungary as member of the Supervisory Board of the Social Security Pension Fund. Previous positions include: Head, Department of Mathematical Modelling in the National Planning Bureau; visiting professor at various universities in Bangladesh, India and the United States of America; Research Fellow at the International Institute of Applied Systems Analysis in Laxenburg, Austria. Received professional education in Hungary. Research interests include macroeconomic theory, quantitative models for economic decision-making, and household life-cycle behaviour (including social-security issues). Editor of numerous journals and author of books and studies.

Maria Julia Alsogary (Argentina). Secretary of the Secretariat for Natural Resources and Human Environment. Former positions include: Vice-President, National Defence Commission of the National Chamber of Deputies; member, Commission of Foreign Relations, National Defence, Science and Technology; National Congresswomen for the Unión del Centro Democrático, Buenos Aires; delegate of Argentina to the Argentine/Uruguayan Economic Cooperation Agreement; adviser in the delegation to the Latin American Free Trade Association and various positions in the private sector. Received professional education in Argentina.

Makhtar Diouf (Senegal). Dean of Economics, University of St. Louis, Dakar; Chairman, Centre for Applied Economics; member, World Institute for Development Economics Research (WIDER) network. Previous positions include: Professor, University of Dakar; consultancies with various regional and international organizations. Received professional education in France. Research interests include determinants of growth in developing countries; macroeconomic, monetary and social issues in developing countries. Author of several books and articles.

Essam El-Hinnawi (Egypt). Research Professor of Natural Resources and Environment, National Research Centre, Cairo. Previous positions include: research positions in Egypt and abroad; consultant/adviser to various national and international organizations; Director, Office of the State of the Environment, United Nations Environment Programme. Received professional education in Egypt. Research interests in the areas of geochemistry, mineralogy, natural resources and environment. Author/editor of several books and numerous research papers.

Just Faaland (Norway). Member and Director, Christian Michelsen Institute, Norway. Previous positions include: Director-General, International Food Policy Research Institute, Washington, D.C.; President, Development Centre of the Organisation for Economic Cooperation and Development (OECD), Paris; Resident Representative, World Bank, Bangladesh; Director, Harvard University, Development Advisory Group, Malaysia Project; member, Harvard University Development Advisory Group, Pakistan Planning Commission and various selected assignments with national, regional and international organizations. Received professional education in Norway and the United Kingdom of Great Britain and Northern Ireland. Author of numerous books and articles.

Eugenio B. Figueroa (Chile). Director, Centre of Environmental and Natural Resources Economics; Professor, Department of Economics, and Director, International Relations, School of Economic and Administrative Sciences, University of Chile. Other positions include: Visiting Professor and Research Adviser, Göteborg University (Sweden) and Universidad Austral de Chile; member of Environmental Commission, Centro de Estudios Publicos, Chile; member of several editorial boards; President and Director of the Board of Directors, Quince S.A. (Chile). Previous positions include: project director, international expert and consultant to various national, regional and international institutions. Received professional education in Canada, Chile and the United States. Author of books, book chapters and numerous articles.

Albert Fishlow (United States of America). Paul A. Volcker Senior Fellow for International Economics, Council on Foreign Relations, United States. Member of many task forces related to Latin American affairs; Chairman of Executive Committee of the Social Science Research Council. Previous positions include: Professor of Economics at the University of California, Berkeley; Dean of International and Area Studies, University of California, Berkeley; Professor of Economics and Director of the Center for International and Area Studies, Yale University; Deputy Assistant Secretary of State for Inter-American Affairs. Received professional education in the United States. Research interests include economic history, Brazilian and Latin American development strategy, economic relations between industrialized and developing countries and the problem of foreign debt. Author of books and numerous articles.

Shangquan Gao (China). Member, National Committee of the Chinese People's Political Consultative Conference; member, Overall Research and Coordinating Panel on National Economic and Social Development of the State Council; President, China Society of Enterprise Reform and Development and other institutions. Previous positions include: Vice-Minister, State Commission for Restructuring Economic System; head of Economic Reform Programming Office of the State Council; deputy head of Housing System Reform Leading Panel of the State Council. Received professional education in China. Author of several books and articles.

Leonid M. Grigoriev (Russian Federation). Since 1997 Director-General, Bureau of Economic Analysis. Prior to that, adviser to the Executive Director for Russia at the World Bank; Deputy Minister of Economic and Finance, head of the division on "problems of privatization", Institute of Economic Policy; and expert on various commissions on economic reform. Since 1988, Associate Professor of Economics at Moscow State University. Author of several books on various aspects of the economic transformation of the Russian Federation, with emphasis on foreign investment, capital markets, and privatization. Research interests include corporate investment and financing.

Patrick Guillaumont (France). Director, Centre for Study and Research for International Development, and Professor of Economics, at the University of Clermont-Ferrand. Member of several national and international advisory bodies on African and other development issues, notably on the least developed countries. Previous positions include: member of the National Science Research Council; Chairman, Commission for the Study of Research and Teaching of International Development; Associate Professor of Law at the Universities of Dakar and Clermont-Ferrand; Assistant Professor of Law, University of Paris; consultant to various international organizations and Governments. Received professional education in France. Author of numerous publications on economic development.

Ryokichi Hirono (Japan). Professor of Economics and Business, Seikei University, and Visiting Professor, University of Stellenbosch (South Africa). Visiting Fellow at a number of academic and related institutions in Japan. Previously taught at a variety of academic institutions in Australia, Japan, the United Kingdom and several developing countries. Member of many public-service bodies in Japan, including the Japan Foundation for the Institute for Global Environmental Strategies and the Advisory Committee on International Cooperation in Education. Formerly Assistant Administrator and Director, Bureau of Programme Policy and Evaluation, United Nations Development Programme (UNDP). Research interests include the process of economic reform in the socialist and formerly socialist countries in Asia.

Taher Kanaan (Jordan). Cabinet Member. Sometime consultant in economics and business. Previous positions include: General Manager, Industrial Development Bank of Jordan; Minister of Planning, Government of Jordan; Minister of Occupied Territories Affairs; Economic Adviser and Director of the Management Information System, Arab Fund for Economic and Social Development; Chief, External Financing and Development Branch, United Nations Conference on Trade and Development. Received professional education in Lebanon and the United Kingdom. Research interests include development finance, agricultural development and input/output analysis.

Louka T. Katseli (Greece). Special Economic Adviser to the Prime Minister; Professor of Economics, University of Athens; Research Fellow, Centre of Economic Policy Research Foundation. Previous positions include: Associate Professor, Yale University; Director-General, Centre of Planning and Economic Research, Government of Greece. Received professional education in the United States. Research interests include exchange-rate policies in developing courtries, transmission of external price stocks in small open economies, macroeconomic policy, and structural adjustment. Author of several books and articles.

Nguyuru H. I. Lipumba (United Republic of Tanzania). Associate Professor, Department of Economics, University of Dar es Salaam, United Republic of Tanzania; visiting Professor, Williams College. Previous positions include: Economic Adviser to the President of the United Republic of Tanzania. Received professional education in the United Republic of Tanzania and the United States. Research interests include agricultural development, exchange-rate and stabilization policies, regional economic integration, international trade and African economic development. Author/editor of several publications and papers.

Solita C. Monsod (Philippines). Professor of Economics, University of the Philippines, and formerly Minister and Director of the National Economic and Development Authority; member, Board of Regents, Associate Professor, University of the Philippines; Executive Director, University of the Philippines Foundation; economist, Mathematica, Princeton, United States. Author of articles and policy papers on debt, development, management and fiscal policy. Associated with various public affairs associations and recipient of honours and awards. Received professional education in the Philippines and the United States of America.

P. Jayendra Nayak (India). Executive Trustee, Unit Trust of India since May 1996. From 1971 to 1996, worked as a civil servant. Joint Secretary in the Department of Economic Affairs, Ministry of Finance, 1990–1995. In that capacity, participated in the evolution of capital-market policy and the empowerment of the capital-market regulator. Formerly on the Board of Directors of the Securities and Exchange Board of India. Published papers in economics and on issues concerning financial markets. Received his professional education in India and the United Kingdom.

Mari Elka Pangestu (Indonesia). Executive Director, Centre for Strategic and International Studies, Jakarta, and Professor of Economics, University of Indonesia. Member of the supervisory board of Catholic University Atmajaya. On the Board of External Editors of several journals; member of advisory boards of the Nature Conservancy (Indonesia) and of The Newmarket Company (Washington, D.C.); member, Board of Directors of Overseas Development Council. Active as Coordinator of the Trade Policy Forum of the Pacific Economic Cooperation Council. Has published widely in Indonesian and international journals and other media. Received her professional education in Australia, Indonesia and the United States.

Milivoje Panić (United Kingdom of Great Britain and Northern Ireland). Fellow of Selwyn College, University of Cambridge, and Visiting Professor of International Economics, University of Milan. Held senior positions in the Government and at the Bank of England. Has sat on a number of international committees of experts, including OECD, the Bank for International Settlements, and the Economic Commission for Europe. Received his professional education in the United Kingdom.

Eul Yong Park (Republic of Korea). Vice-President and Professor of Economics and Management, Handong University. Formerly Senior Fellow and Director, Korea Development Institute, and senior adviser, UNDP. Also formerly coordinator of Asia-Pacific Economic Cooperation and the Network on Economic Development Management. Held various positions as adviser and educator in the Republic of Korea and the United States. Author of several books and many scientific papers in international journals. Received his professional education in the Republic of Korea and the United States.

Bishnodat Persaud (Guyana). ALCAN Professor of Caribbean Sustainable Development, University of the West Indies, and Director, Centre for Environment and Development. Previous positions include Director and Head, Economic Affairs Division, Commonwealth Secretariat; member of the Board of Directors, Commonwealth Equity Fund; Director, Barbados Central Bank. Consultancies with national and international organizations. Received professional education in the United Kingdom. Research interests include Caribbean and international development issues; environment, agriculture, trade and finance. Author of numerous articles.

Akilagpa Sawyerr (Ghana). Professor of Law and Fellow, Ghana Academy of Arts and Sciences. Director of Research, Association of African Universities; President, Council for the Development of Social Sciences in Africa. Previously taught law at various universities, including Alabama, Dar es Salaam, Northwestern, Papua New Guinea, and Yale. Member of the editorial board of several journals. Formerly, Vice-Chancellor, University of Ghana, Lagos; member, Panel of Arbitrators, International Centre for Settlement of Investment Disputes; and Chief Negotiator, Government of Ghana for Renegotiation of Valco Agreements. Educated in law in Ghana, the United Kingdom and the United States. Research interests include the political economy of adjustment policies and migration.

Udo Ernst Simonis (Germany). Head, International Institute for Environment and Society, Berlin Science Centre, and formerly Professor of Economics, Technical University of Berlin. Research interests include environmental perspectives of freshwater resources, environment in the International Development Strategy, and environment and poverty. Received his professional education in Germany. Author of several books and many articles. Member of several editorial boards.

Ruben Tansini (Uruguay). Director of the Department of Economics, University of Uruguay. Professor in Industrial Organization and Microeconomics, Department of Economics, University of Uruguay. Previously taught at universities in Barcelona, Gothenburg, Madrid and Siena. Held various advisory positions on Latin American development, education and science. Research interests focus on agricultural and industrial organization and technological developments, with particular emphasis on development issues in Latin America. Author of several studies on technological progress and transfer of technology in an open-economy setting, labour markets, industrial restructuring and modernizing agriculture. Received his professional education in Sweden and Uruguay.

Miguel Urrutia (Colombia). Chairman of the Board of Directors, Central Bank of Colombia, formerly Executive Director and Senior Research Economist, Foundation for Higher Education and Development, and Manager, Economic and Social Development Department, Inter-American Development Bank. Author of a number of books and articles in professional journals. Research interests include fiscal reform, financial liberalization in developing countries, and international problems of money and finance.

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Agenda item 1
Adoption of the agenda and other organizational matters

Elections to the Committee on Energy and Natural Resources for Development

Note by the Secretary-General

Addendum

1. The Secretary-General has received the following additional nominations for election to the Committee on Energy and Natural Resources for Development:

Raymond Marcio **Wright** (Jamaica)

John Michael **Matuszak** (United States of America)

2. The candidates' terms of office would begin on 1 January 1999. Biographical information on the candidates is set out in the annex below.

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Annex

Biographical information on nominees to the Committee on Energy and Natural Resources for Development

Raymond Marcio Wright (Jamaica)

Education

Stanford University, Ph.D., 1976; specialty: sedimentology, sedimentary, petrology, mathematical geology, palaeoecology, taxonomy

University of London, M.Phil., 1966 (United Nations Fellowship); specialty: carbonate sedimentology, palaeoecology, micropalaeontology

University College, University of London, M.Sc. in Micropalaeontology, 1964

University of Durham, B.Sc. in Geology (major) and Zoology (minor), 1963

Current post

Group Managing Director, Petroleum Corporation of Jamaica Group of Companies

Previous positions (selected)

1992–1993	Director, Energy Resources, Petroleum Corporation of Jamaica; directly responsible for energy resources development
1974–1979	Commissioner of Mines and Director, Geological Surveys, Jamaica
1968–1972	Senior Hydrogeologist assigned to UNDP groundwater project, Jamaica
1964–1965	Geologist, Geological Survey Department, Jamaica, in the area of field mapping

Activities

Summary

Chairman, Marine Advisory Council, Jamaica

Member, National Energy Commission

Environmental Protection Council

Director, Company Boards, Petroleum Corporation of Jamaica (founding member since 1979), Petrojam Limited (Jamaica) and Petrojam Ethanol Limited (Jamaica)

Consultant, United Nations Centre on Transnational Corporations, New York, Commonwealth secretariat, London, Organization of American States, Washington, D.C., NORAD — Norwegian Government, Netherlands Government and Petro-Canada International Assistance Corporation; part of a team that prepared the petroleum laws of Jamaica and Nicaragua

Publications (selected)

"Energy and sustainable development", in *Resource Management and Sustainable Development in the Caribbean*, I. Goodbody, ed. (University of the West Indies Press, forthcoming)

"Social impact of fossil fuel use", paper presented at a health seminar at Kingston, October 1998

"Clean energy in the Caribbean", paper presented at Inter-Expo, Curacao, October 1998

"Wind development in Jamaica and the Caribbean", paper presented at the Fifth World Renewable Energy Congress, Florence, 21–25 September 1998

"Developing human resources to cope with progress in information technology", proceedings in the area of information technology at an oil and gas conference, 28–30 July 1998, Caracas

"Energy and environment", proceedings of a seminar hosted by Trafalgar Development Bank, Kingston, 19 and 20 May 1998

"Implementing Caribbean hydropower resources", paper presented at an international conference on hydropower, Hangzhou, China, 23–25 March 1998

Jamaica's Energy: Old Prospects and New Resources (University of the West Indies Press, 1996)

"Earth science in engineering: too little or too much?", *The Masterbuilder* (1977)

John Michael Matuszak (United States of America)

Education

Aquinas College, Grand Rapids, Michigan (Biology, Geography); Michigan State University (Genetics, Soils, Development Economics); Cornell University (Mycology, Ecological Genetics)

Professional experience

United States Agency for International Development: Coordinator for Latin America and the Caribbean; Global Bureau, Center for the Environment: Technical Advisor on watershed and natural resource management; United States Environmental Protection Agency, Certified Environmental Impact Assessment Specialist and Assessment Reviewer; Policy Advisor on the Global Environment Facility and the Convention on Biological Diversity

United States Department of State: Natural Resource Management Officer; Coordinator for the G-7 Brazil Pilot Program; Technical Advisor on forest and biodiversity

Cornell University Cooperative Extension Service, Coordinator for Natural Resources and Agriculture Programs

United States Congress, Office of Technology Assessment, Technical Advisor on Renewable Resource Management Technology for Islands

United States Department of Agriculture University of the Virgin Islands Cooperative Extension Service: Coordinator for Sustainable Development and Natural Resource Management; Technical Advisor on Environmental Impact Assessment

University of the Virgin Islands, Adjunct Assistant Professor in Biology and Natural Resources

George Mason University, Guest Lecturer

Georgetown University, Guest Lecturer

Cornell University, Guest Lecturer

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Elections to the Committee on Energy and Natural Resources for Development

Note by the Secretary-General

Addendum

1. The Secretary-General has received the following additional nominations for election to the Committee on Energy and Natural Resources for Development:

From the Government of China: **Zhang** Guocheng
From the Government of the Russian Federation: Sergey M. **Natalchuk**
From the Government of Thailand: Siripong **Hungspreug**
From the Government of Zimbabwe: Paul M. **Kodzwa**

2. The candidates' terms of office would begin on 1 January 1999. Biographical information on the candidates is set out in the annex below.

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Annex

Biographical information on nominees to the Committee on Energy and Natural Resources

Zhang Guocheng (China)

Present position

Acting Director-General, Torch High Technology Industry Development Centre, Ministry of Science and Technology of China

Education

Graduated from the Department of Machinery Engineering, Tianjin University, China, 1977

Post-graduate study in Energy Economics and Planning, Energy Division, Asian Institute of Technology, Bangkok, 1987–1988

Professional experience

1977–1982: Engineer, Energy Research Institute, Chinese Academy of Agricultural Mechanization Sciences

1983–1987 and 1989–1997: Programme Officer and then Division Chief, Energy Division, Department of Industrial Technology, Science and Technology Commission of China

1998–present: Acting Director-General, Torch High Technology Industry Development Centre, Ministry of Science and Technology of China

1993–1998: Member, Committee on New and Renewable Sources of Energy and on Energy for Development (United Nations); served as Vice-Chairman of the Committee, 1993–1995

Special skills

Energy policy analysis, project evaluation and project management

Energy development policies in China

Extensive experience in international cooperation in energy

Publications

Handbook on China's Windmill (1984)

Development and Utilization of New and Renewable Sources of Energy (China Energy Press, 1985)

Several dozen papers on energy policy and new energy utilization

Sergey M. Natalchuk (Russian Federation)

Education

1974: Graduated from the Moscow Irrigation and Land Reclamation Institute, specializing in water management

Professional experience

1975–1985: Engineer, Senior Engineer, Chief Engineer, Deputy Head of Section, Soyouzgiprovodkhoz Research Institute; engaged in developing and designing water management systems and projects

1985–1991: Senior Expert, First Category Expert, Deputy Head of Section, State Planning Committee of the Union of Soviet Socialist Republics; engaged in planning the use and protection of water resources

1991–1996: Deputy Chairman of the Committee for Water Resources, Ministry of Environment of the Russian Federation, Deputy Chairman of the Committee of the Russian Federation for Water Resources; ensured the management of operational regulation and long-term planning of the use and protection of water resources and the development of the legal and normative framework in the field of water use

1996–1998: First Deputy Head of the Moskva-Oka River Basin Water Resources Authority; responsible for the management of the use and protection of the waters of the Oka, Moskva, Upper Volga and Upper Dniepr river basins and the water supply for Moscow

Siripong Hungspreug (Thailand)

Education

B.E. (Honours), Civil Engineering, University of Western Australia, 1973

M.Sc. Civil Engineering, Polytechnic Institute of New York, 1976

Ph.D. Civil Engineering, Cornell University, New York, 1981

Professional status

Licensed Professional Engineer

Membership in professional societies

Registered Thai Professional Civil Engineer

Member of the Engineering Institute of Thailand

Deputy Secretary-General of the Thai National Committee on Irrigation and Drainage

Summary of key experiences

1998: Director, Office of Budget Programming and Project Planning, Royal Irrigation Department

1995: Director of Project Planning Division

1994: Expert in Water Resources Development Planning

Chairman, Working Group on Construction, Rehabilitation and Modernization of Irrigation and Drainage Projects

1992: Acting Chief, Large-Scale Projects Planning Section

Member of the committee reviewing feasibility reports carried out by the Royal Irrigation Department

Member of the National Water Resources Committee working group supervising the basin study in Thailand

Member of the Organizing Committee for the Eighth Afro-Asian Regional Conference of the International Committee on Irrigation and Drainage

Paul M. Kodzwa (Zimbabwe)

Education

1965–1969: California State University, Sacramento
B.Sc., Mechanical Engineering with a minor in Electrical Engineering

1974–1976: Golden Gate University, San Francisco
MBA, specializing in Management and Finance

Professional qualifications

Member, American Society for Heating, Ventilating and Air Conditioning

Member, American Society for Mechanical Engineers (ASME)

Member, Zimbabwe Institution of Engineers (MzwelE), 1983–1989

Fellow, Zimbabwe Institution of Engineers (FzwelE)

Council Member, National University of Science and Technology; responsible for the building, design and construction programme for the University

Honours

1979: Energy Conservation Achievement Award, Pacific Gas and Electric Company

1981: Outstanding Performance Award, American Telephone and Telegraph Company

Work experience

1985–present: Secretary for Transport and Energy, Government of Zimbabwe

1991–1995: Secretary for Public Construction and National Housing, Government of Zimbabwe

1988–1991: Director of Professional Services for Public Construction and National Housing, Government of Zimbabwe

1985–1988: Deputy Secretary, Professional Services for Public Construction and National Housing, Government of Zimbabwe

1983–1985: Chief Electrical Engineer and Deputy Chief Mechanical Engineer for Public Construction and National Housing, Government of Zimbabwe

1982–1983: Building Energy Manager, Bell System (PT&T), Sacramento, California

1979–1982: Building Energy Management and Conservation Specialist, Bell System (AT&T), Basking Ridge, New Jersey

1976–1979: Building Engineering Manager, Bell System (PT&T), Sacramento, California

1970–1976: Mechanical and Electrical Design Engineer, Bell System (PT&T), Sacramento, California

1969–1970: Plant Maintenance Engineer, Crown Zellerbach Corporation, Wauna, Oregon